SHKURUPIY, P.L.; ANNOPOLIN, A.G.

Replacing foundry coke with natural gas. Mashinostroitel' no.9:38 S '60. (MIRA 13:9)
(Gas, Natural) (Founding)

ANDRYUKHIN, V.S.; FEDULIN, L.Ye.; SHKURUPIY, P.L.

Chain pusher. Gor. zhur. no.9:74 S '63. (MIRA 16:10)

SHKURUPIY, YE.

Conveying Machinery

Apparatus for lifting and transporting guts. Mias. ind. SSSR 23, no. 3, 1952.

9. Monthly List of Russian Accessions, Library of Congress, September 1952, Uncl.

SHKURUPIY, YE.

Lubrication and Lubricants

Device for lubricating traveling rollers. Mias. ind. SSSR 23 no. 3, 1952.

9. Monthly List of Russian Accessions, Library of Congress, September 1952, Uncl.

SHKURUPIY, Ye.

Unit for singeing packing-house by-products. Mias.ind.SSSR 27 no.3: 52-53 '56. (MIRA 9:9)

1.Khmel'nitskiy myasokombinat.
(Packing houses--Equipment and supplies)

SHKUTA, A.A., gornyy inzhener.; NOGAY, Yu. T., gornyy inzhener.

Mining inclined and flat veins by the longwall advanced method with roof caving. Gor. zhur. no.2:18-21 F '57. (MLRA 10:4)

1. Trest Altayzolodo (for Shkuta). 2. Rudnik Oktyabr'skiy (for Nogay) (Mining engineering) (Shale)

SHKUTA, E. A.

"New technology of open-pit mining of mineral deposits" by M. G. Novozhilov, V. G. Selianin, B. N. Tartakovskii. Reviewed by E. A. Shkuta. Ugol' Ukr. 6 no.10:45-46 O '62. (MIRA 15:10)

1. Glavnyy inzh. upravleniya gornodobyvayushchey promyshlennosti.

(Strip mining) (Novozhilov, M. G.) (Selianin, V. G.) (Tartakovskii, B. N.)

SHKUTA, Eduard Ivanovich

ANDREYEV, Yevgeniy Timofeyevich; FEDOROV, Sergey Alekseyevich; SHKUTA, Eduard Ivanovich; SAUKHAT, I.G., redaktor; KEL'NIK, V.P., redaktor izdatel'stva; ZEF, Ye.M., tekhnicheskiy redaktor

[Mine supports of slag brick] Kreplenie gornykh vyrabotok litymi shlakovymi kamniami. Sverdlovsk, Gos.nauchno-tekhn.izd-vo lit-ry po chernoi i tsvetnoi metallurgii, Sverdlovskoe otd-nie, 1957. 79 p. (MIRA 10:7)
(Mine timbering)

BONDARENKO, I.I., ZHUKOV, M.N.; ZINCHEVSKIY, N.P.; RED'KO, I.A.
SEMENKO, P.I.; SVINARENKO, D.M.; KHIVRENKO, A.F.; SHKUTA, E.I.;
SHOSTAK, A.G.

Review of "Ventilation of mines after large-scale blasting"
by S.I.Lugovskoi. Reviewed by I.I.Bondarenko and others.
Bezop.truda v prom. 3 no.8:38 Ag '59. (MIRA 12:11)

1. Glavnyy inzhener upravleniya Krivorozhskogo okruga Gosgortekhnadzora USSR (for Bondarenko). 2. Glavnyy inzhener instituta Krivbassproyekt (for Zhukov). 3. Glavnyy inzhener rudoupravleniya im. Karla Libknekhta (for Zinchevskiy). 4. Nachal'nik otdela kapital'nogo stroitel'stva rudoupravleniya im. Dzerzhinskogo (for Ryng). 5. Nachal'nik ventilyatsii tresta Dzerzhinskruda (for Red'ko). 6. Upravlyayushchiy rudoupravleniyem im. Dzerzhinskogo (for Svinarenko). 7. Upravlyayushchiy upravleniyem im. Karla Libknekhta (for Semenko). 8. Glavnyy inzhener tresta Dzerzhinskruda (for Khivrenko). 9. Glavnyy inzhener rudoupravleniya im. Dzerzhinskogo (for Shkura). 10. Nachal'nik tekhnicheskogo otdela tresta Dzerzhinskruda (for Shostak).
(Bibliography--Industrial safety) (Lugovskoi, S.I.)

VAGANOV, P.V.; IKONNIKOV, A.N.; KOMPANEYETS, V.P.; SHKUTA, F.I.

Basic problems of mining low-grade iron ore deposits. Trudy Gor.-geol.inst.UFAN SSSR no.41:181-187 '59. (MIRA 13:5)
(Iron mines and mining)

CHERNENKO, A.R.; SIMFOROV, G.Ye.; SHKUTA, E.I.; TEREKHOV, I.P.; POLYANSKIY, F.S.; PISANKO, K.S.; SHENDRIK, V.K.; AL'TSHULER, M.A.; RIVKIN, I.D.; ENGEL', Ya.R.; CHETYRKIN, M.I., red.izd-va; PYL'NEN'KIY, A.A., red.izd-va; OSVAL'D, E.Ya., red.izd-va; PROZOROVSKAYA, V.L., tekhn.red.

[Sharp increase in the labor productivity of Krivoy Rog Basin miners; practices in the "Bol'shevik" and "Gigant" mines] Krutoi pod"em proizvoditel'nosti truda gorniakov Krivbassa; iz opyta raboty shakht "Bol'shevik" i "Gigant." Moskva, 1960. 173 p. (MIRA 13:11)
(Krivoy Rog Basin--Iron mines and mining--Labor productivity)

MALAKHOV, G.M., prof., doktor tekhn.nauk; SHKUTA, E.I.; CHERNENKO, A.R.; VASHCHENKO, V.S.

For the highest possible labor productivity in underground mines. Gor. zhur. no. 11:3-7 N '60. (MIRA 13:10)

1. Krivorozhskiy gornorudnyy institut (for Malakhov). 2. Glavnyy inzh. rudnika im. Dzerzhinskogo (for Shkuta). 3. Nachal'nik shakhty Gigant krivorozhskogo rudnika im. Dzerzhinskogo (for Chernenko). 4. Glavnyy inzhener shakhty Gigant krivorozhskogo rudnika im. Dzerzhinskogo (for Vashchenko).
(Mining engineering--Labor productivity)

VASIL'YEV, M.V., gornyy inzh.; KOTOV, V.N., gornyy inzh.; RUSSKIY, I.I., gornyy inzh.; KHOKHRYAKOV, V.S., gornyy inzh.; POPOV, S.I., gornyy inzh.; SHILIN, A.N., gornyy inzh.; TARAN, M.I., gornyy inzh.; SHKUTA, E.I., gornyy inzh.

"Strip mining" by M.G.Novozhilov. Reviewed by M.V.Vasil'ev and others. Gor. zhur. no.7:79-80 Jl '61. (MIRA 15:2)
(Strip mining)
(Novozhilov, M.G.)

KOVALEV, A.F., kand. tekhn. nauk; LINNIK, G.F., kand. tekhn. nauk; BELASH, A.S.; SHKUTA, E.I.; LUBENETS, V.A.; KUKHTA, P.V.

Advantages of using hardening filling in Krivoy Rog Basin mines. Met. i gornorud. prom. no.1:56-59 Ja-F '64. (MIRA 17:10)

ARSENT'YEV, Aleksandr Ivanovich; VINOGRADOV, Vladimir Samoylovich; DZYUBENKO, Mikhail Grigor'yevich; YESHCHENKO, Aleksey Andreyevich; KALYAKIN, Viktor Vasil'yevich; KARMAZIN, Vitaliy Ivanovich; KISELEV, Vyacheslav Mikhaylovich; KULIKOV Vladimir Vasil'yevich; MELESHKIN, Sergey Mikhaylovich; SINAPENKO, Aleksandr Ivanovich; KHIVRENKO, Akim Foteyevich; SHKUTA, Eduard Ivanovich; SHOSTAK, Afonasiy Grigor'yevich; MOSKAL'KOV, Yevgeniy Fedorovich, retsenzent; SOSEDOV, Orest Orestovich, retsenzent; ROSSIT, Aleksandr Filippovich, otv. red.; SUROVA, V.A., red.izd-va; LAVRENT'YEVA, L.G., tekhn. red.

[Overall development of an iron-ore basin] Kompleksnoe razvitie zhelezorudnogo basseina. [By] A.I.Arsent'yev i dr.Moskva, Izd-vo "Nedra," 1964. 293 p. (MIRA 17:3)

BELASH, Aleksandr Sergeyevich, inzh.; KOVALEV, Aleksey Fedotovich, kand. tekhn. nauk; LINNIK, Grigoriy Filippovich, kand. tekhn. nauk; NESTERENKO, Vladimir Vasil'yevich, inzh.; SHKUTA, Eduard Ivanovich, inzh.; DUDKO, V.D., inzh., retsenzent; AFONINA, G.P., red.

[Improving systems of mining iron-ore deposits] Usovershenstvovanie sistem razrabotki zhelezorudnykh mestorozhdenii. Kiev, Tekhnika, 1965. 207 p. (MIRA 18:12)

SHKUTA, E.I.; LYGOVSKIY, S.I., doktor tekhn.nauk; OSHMYANSKIY, I.B., gornyy inzh.

Potentials of mine ventilation. Gor.zhur. no.3:26-30 Mr '65.
(MIRA 18:5)

1. Glavnyy inzh. Upravleniya gornodobyvayushchey promyshlennosti Pridneprovskogo soveta narodnogo khozyaystva (for Shkuta).

SHKUTA, E.I.

Review of the book by M.F.Drukovanyi and others "Blasting high benches." Gor. zhur. no.5:77 My '65. (MIRA 18:5)

1. Glavnyy inzh. Upravleniya gornodobyvayushchey promyshlennosti Pridneprovskogo soveta narodnogo khozyaystva.

[redacted], A.F.; [redacted], M.I.; [redacted], G.A.; [redacted], I.I.; [redacted], S.I.

Improving the degree of ore crushing by blasting. Gor. zhur. no.7:42-46 Jl '65. (MIRA 18:8)

SHKUTA, E.I.

165.

AYTASHEV, G.A.; SHKUTA, L.A.; NOGAY, Yu.T.

Working of an inclined Espe lode. Izv. AN Kazakh. SSR. Ser. gor. dela no.1:3-9 '59. (MIRA 12:9)
(Kazakhstan--Mining engineering)

ACCESSION NR: AP4044724 S/0207/64/000/004/0101/0104

AUTHOR: Shkutin, L. I. (Novosibirsk)

TITLE: Postbuckling deformation and stability of a shallow spherical segment

SOURCE: Zhurnal prikladnoy mekhaniki i tekhnicheskoy fiziki, no. 4, 1964, 101-104

TOPIC TAGS: postbuckling deformation, shallow shell, shell stability, shell deformation, spherical shell, spherical segment, shallow spherical segment

ABSTRACT: The shape of a convex shallow shell deflected as deeply as possible is assumed to be a mirror image of the initial shell except for the edge-adjacent area, where an additional deformation takes place. The energy of deformation in this area is determined by applying the theory of edge effect. This method of investigation leads most quickly to the solution of the problem and is especially convenient for shallow shells because the effect of boundary conditions on the value of the buckling energy, i.e., on the magnitude of the lower critical

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ACCESSION NR: AP4044724

load, can be easily estimated. The application of this method is demonstrated in the investigation of the deformation and stability of a thin-walled spherical segment clamped along its edge and subjected to uniform normal pressure on the convex side. Formulas are derived for the energy of deformation and the lower and upper critical loads, and the behavior of the segment is discussed and illustrated by diagrams. The possibility is pointed out of generalizing the results obtained for an arbitrary shallow shell of revolution having a continuously variable thickness and subjected to other types of loading. Orig. art. has: 3 figures and 7 formulas.

ASSOCIATION: none

SUBMITTED: 20Feb64 ATD PRESS: 3091 ENCL: 00

SUB CODE: AS NO REF SOV: 002 OTHER: 001

Card 2/2

SHKUTIN, L.I. (Novosibirsk)

Dynamic snapping of disk springs. Izv. AN SSSR. Mekh. i mashinostr. no. 2:157-159 Mr-Ap '64. (MIRA 17:5)

L 64808-65 EWT(d)/EWT(m)/EWP(w)/EWP(v)/EWP(k)/EWA(h)/ETC(m) WW/EM/GS

ACCESSION NR: AT5017591 UR/0000/65/000/000/0347/0354

AUTHOR: Shkutin, L. I. (Novosibirsk)

TITLE: Stability of elastic shells of revolution under suddenly applied pressure

SOURCE: Vsesoyuznaya konferentsiya po problemam ustoychivosti v stroitel'noy mekhanike. Moscow, 1963. Problemy ustoychivosti v stroitel'noy mekhanike (Problems of stability in structural mechanics); trudy konferentsii. Moscow, Stroyizdat, 1965, 347-354

TOPIC TAGS: shell structure, shell structure stability, structural strength, shell theory

ABSTRACT: The possibility of elastic rebound of thin shells of revolution under the sudden application of a uniform external pressure is studied. The equation of axially symmetric movement of a shell, seen as a system with one degree of freedom, is set forth in Lagrange form. By means of qualitative analysis of this equation, a critical value of the suddenly applied pressure is determined. Corresponding computations are carried out for conical and spherical shells. Shell movement is given by the second order Lagrange equation

$$\frac{\ddot{\Pi}}{m} + \frac{d\Pi}{df} = 0,$$

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where $f = f(t)$ is a generalized coordinate, m is some applied mass of the system, $\Pi = \Pi(f,p)$ is the potential of external and internal forces (total potential energy) of the system, and the dots signify differentiation with respect to time. The equation may also take the form

$$\frac{1}{m} VdV = \frac{d\Pi}{df} df = 0 \quad (V = \dot{f}),$$

which leads to the summation of energy

$$\frac{V^2}{2m} + \Pi = \Theta_0 .$$

Here Θ_0 is a constant denoting total energy. The family of integral curves defined by the energy equation is discussed, and a qualitative definition of critical pressure is given. The determination of the critical value of a suddenly applied uniform pressure is formulated by the use of two functions which completely define the stress deformed condition of a shell. These functions are the deflection function $W = \frac{w}{H}$ and the force function $\Psi = -\frac{\rho T_1}{\mu^2 Eh}$, where w is the deflection of a point of the middle surface in the axial direction, H - is the indicator of shell uplift, T_1 is the meridianal unit normal force, h - shell thickness, E is Young's modulus $\rho = \frac{r}{b}$, where r is the distance from the point of the middle surface to the axis of

L 64808-65
ACCESSION NR: AT5017591

revolution, b is the radius of the shell boundary, and $\mu = \frac{H}{b}$. The solution is developed through the use of energy conservation principles. Plots are given showing the variation of critical pressure with a representative problem parameter. Four variations of shell support structure are considered in the solutions. Orig. art. has: 16 equations, 2 figures, and 1 table.

ASSOCIATION: Vsesoyuznaya konferentsiya po problemam ustoychivosti v stroitel'noy mekhanike, Moscow (All-Union Conference on Problems of Stability in Structural Mechanics)

SUBMITTED: 12Feb65 ENCL: 00 SUB CODE: ME

NO REF SOV: 001 OTHER: 000

Card 3/3

L 41151-66 EWT(d)/EWT(m)/EWP(k)/EWP(w)/EWP(v) IJP(c) EM/WW

ACC NR: AP6021547 (A) SOURCE CODE: UR/0198/66/002/006/0063/0070

AUTHOR: Shubin, I. A. (Novosibirsk); Shkutin, L. I. (Novosibirsk)

ORG: Institute of Hydrodynamics, Siberian Department, AN SSSR (Institut gidrodinamiki, Sibirskoye otdeleniye AN SSSR)

TITLE: Experimental investigation of the stability of plane conical shells under static pressure loading

SOURCE: Prikladnaya mekhanika, v. 2, no. 6, 1966, 63-70

TOPIC TAGS: shell deformation, conic shell structure, shell structure stability, static load test

ABSTRACT: A method is proposed and results given of testing plane conical shells having an angle of elevation of 1/36, 1/18, 1/12 radians, walls 0.1—0.6 mm thick, and base diameter of 138 mm for stability under an external pressure. The shells were manufactured by the galvanic method out of copper. Two types of loading (pneumatic and hydraulic) and restriction of the shells at the base (fixed and movable) were used. The process of deforming the shells

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L 41151-66

ACC NR: AP6021547

from the start of loading to complete reversing in a state of equilibrium close to specular reflection of the initial state is described in detail. The magnitudes of the breaking loads and the forms of undulation of the shells are established. It was found that the loss of stability of carefully manufactured plane conical shells occurs in two stages. The first stage is the transition of the axisymmetric equilibrium form to an asymmetric form with an optimal number of waves fully determined for the shell of the given geometry (the formation of a number of waves other than optimal indicates the presence of initial imperfections in the shell). The occurring asymmetric equilibrium form proves to be unstable at first (unstable in the small) but then becomes stable. The replacement of the stability of the asymmetric form by instability signifies the second stage of loss of shell stability. Equilibrium proves to be unstable over a long path of deformation (instability in the large). Under "dead weight" loads, overturning of the shell occurs which ends with its complete reversal. The authors express deep gratitude to E. I. Grigolyuk on whose suggestion this investigation was performed. Orig. art. has: 5 tables and 6 figures.

SUB CODE: 13/ SUBM DATE: 11Oct65/ ORIG REF: 002

Card 2/2 hs

ACCESSION NR: AP4019086 S/0096/64/000/003/0054/0057

AUTHORS: Tyul'panov, R. S. (Engineer); Shkutov, K. G. (Engineer)

TITLE: Experimental combustion of gas turbine fuel in the experimental installation GT 700

SOURCE: Teploenergetika, no. 3, 1964, 54-57

TOPIC TAGS: gas turbine GT 700, gas turbine fuel, gas turbine combustion chamber, gas turbine bucket wear, gas turbine combustion, gas turbine GT 700 2.5, gas turbine 550, gas turbine GT 600 1.5, gas turbine GT 700 4, gas turbine 700 5, fuel DT 1

ABSTRACT: A new gas turbine fuel (Q = 9 786 kcal/gm, ash content = 0.022%; specific gravity = 0.82, sulfur = 2.38%, vanadium = 0.0007%) was investigated in the experimental gas turbine GT-700-2.5, consisting of a low pressure compressor and a single stage turbine (628 mm diameter, 64 mm high buckets) which runs at a nominal speed of 5000 rpm and at a turbine inlet temperature of 700C. The major part of the experimental program was devoted to the development of a combustion chamber for burning of the heavier fuel. The final design is shown in Fig. 1 of the Enclosure. The injection nozzle head was of standard design with an air

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ACCESSION NR: AP4019086

consumption of 0.025 kg/kg of fuel at an air pressure of 1.5 atm on the nozzle head. The combustion chamber and turbine blades were inspected after 5, 12, 50 and 85 hrs of operation. It was found that the specific wear of the turbine blades increased to $\approx$15 mgm/cm^2 after 85 hrs of operation while the combustion chamber was still in good condition after 100 hrs of operation. At the present wear rate, the loss of turbine blades would amount to 18-20% after 10 000 hrs of operation. Orig. art. has: 5 figures and 3 tables.

ASSOCIATION: TsKTI-IZL

SUBMITTED: 00	DATE ACQ: 26Mar64	ENCL: 01
SUB CODE: PR	NO REF SOV: 001	OTHER: 000

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ENCLOSURE: 01

ACCESSION NR: AP4019086

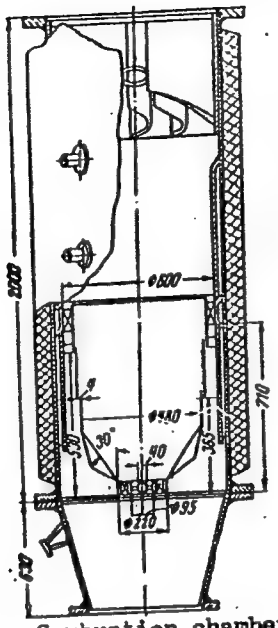

Fig. 1. Combustion chamber.

Card 3/3

SHKUTKO, M.V., kand.sel'skokhozyaystvennykh nauk

Dynamics of acorn ripening and fall in the English oak (Quercus robur L.). Vestsi AN BSSR.Ser.biial.nav. no.4:43-50 '59.
(MIRA 13:4)

(White Russia--Acorns)

K

USSR

Forestry. Forest Biology and Typology.

ABS. JOUR.: Ref Zhur-Biologiya, No. 5, 1959, No. 20113

Author : Shkutko, N.V.

Inst. : Not given

Title : Certain Peculiarities in Acorns from Different Types of Oak Woods in the Belorussian SSR.

ORIG. PUB.: Ser. biol. n., 1957, No.4, 65-75

ABSTRACT : It was determined that the size, specific weight, moisture and chemical contents of acorns stands in relation to climatic and soil-ground condtions under which the oak stands grow. In forest types with good growing conditions for oak, such as, for example, in hornbeam-goatweed oak woods the acorns have larger size and specific weight. In hornbeam-eagle fern oak woods where the growth rate is less intensive, acorn size is

CARD: 1/3

6

CATEGORY :

ABS. JOUR : Ref Zhur-Biologiya, No. 5, 1959, No. 20113

AUTHOR :
INST. :
TITLE :

ORIG. PUB.:

ABSTRACT : smaller. The specific weight of the ripe acorns on early maturing trees in hornbeam-oxalis oak woods is 1.151, and 1.131 on late trees. Acorns on the late trees have an elongated form and higher moisture content, those on early trees are roundish in shape and contain less water. Acorns from oak stands on damp soil contain less water than those in less humid habitats. With a change in climatic conditions of oak growth the moisture in the

CARD: 2/3

SHKOLYK, V.V., Cand Agr Sci—(diss) "Basic problems of forest-cooling measures in oak plantings of BSSR." Minsk, 1958. 20 pp (Min of Higher Education USSR. Belorussian Forestry Engineering Inst im S.M.Kirov), 150 copies (KL,47-58, 13)

- 50 -

SHKUTKO, N.V.

Ecological role of the size of acorns. Vestsi AN BSSR.Ser.biial.nav. no.3:93-97 '58. (MIRA 11:11)
(Acorns)

SHKUTKO, N.V.; CHAKHOVSKIY, A.A.; BOBOREKO, Ye.Z.

Effect of the drought of 1959 on trees and shrubs at the Central Botanical Garden of the Academy of Sciences of the White Russian S.S.R. Sbor. nauch. rab. TSBS no.1:37-41 '60. (MIRA 14:10)

(Minsk--Plants, Effect of aridity on)

SHKUTKO, N.V.

[illegible], N.V.; CHAKHOVSKIY, A.A.

Care of trees in the street plantations of Minsk. Sbor. [illegible] pub. [illegible] no.1. 60-66 '60. (MIRA 14:10)
(Minsk--Trees in cities)

SHKUTKO, N.V.

Fruit bearing of English oak (Quercus robur L.) in plantations of various density. Sbor. bot. rab. Bel. otd. VBO no.2:111-119 '60.
(MIRA 15:1)

(White Russia—Oak)

SHKUTKO, N.V.; CHAKHOVSKIY, A.A.

Natural reproduction of some introduced coniferous varieties.
Sbor. nauch. rab. TSBS no.2:61-64 '61. (MIRA 15:7)
(Minsk--Coniferae)

SHKUTKO, N.V.; CHAKHOVSKIY, A.A.

Watering street trees in Minsk. Sbor. nauch. rab. TSBS no.2: 126-135 '61. (MIRA 15:7)
(Minsk--Trees--Water requirements)

IFFERT, N.V.

Effect of geologic conditions on the properties of asphalts. Izv. vys. ucheb. zav.; neft' i gaz 6 no.5:127-134 '63. (MIRA 17:5)

SHKUTKO, N.V.; MARTINOVICH, B.S.

Some data on the growth of pitch pine in the White Russian S.S.R.
Bot.; issl. Bel. otd. VBO no.6:258-261 '64. (MIRA 18:7)

SHKURKO, Nikolay Vasil'yevich; CHAKHOVSKIY, Aleksandrovich

[Landscaping of cities and settlements] Ozelenenie gorodov i naselennykh punktov. Minsk, Nauka i tekhnika, 1965. 81 p. (MIRA 19:1)

SHKUTKO, N.V.; MARTINOVICH, B.S.

European beech in White Russia. Biul. Glav. bot. sada no.57: 24-26 '65. (MIRA 18:9)

1. TSentral'nyy botanicheskiy sad AN Belorusskoy SSR, Minsk.

S/112/59/000/013/021/067
A002/A001

Translation from: Referativnyy zhurnal, Elektrotekhnika, 1959, No. 13, p. 32, # 26377

AUTHORS: Bychenkov, S. A., Kuznetsov, L. A., Dorfman, L. A., Shkutov, K. G.

TITLE: The Experimental Gas Turbine Plant of NZL

PERIODICAL: Tr. Nevsk. mashinostroit. z-da, 1957 (1958), No. 1, pp. 211-226

TEXT: An experimental gas turbine power plant was built at NZL in 1945-1948. At this plant a single-shaft ГТ-550 (GT-550) unit was installed working on an open cycle with regeneration (550°C gas temperature, 3.5 atm pressure). In 1955, the unit was converted to a ГТ-700 (GT-700) two-shaft installation (700°C gas temperature). The plant was in operation for 2,500 hours with 130 starts. The GT-550 with a capacity of 840-1,000 kw has 5 reaction stages with a 50% reaction. The adjustment of the compressor was performed during the tests. The stage characteristic on which the calculation of the compressor of the industrial ГТ-600-1.5 (GT-600-1.5) was based, was plotted on the basis of these

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investigations. The nonuniform distribution of temperatures over the turbine casing and great temperature stresses in the rotor bore necessitate a preheating of the installation for 60 - 80 minutes. Characteristics of the turbine unit at different operating conditions are given. Changes of the outside air temperature from +20°C to -20°C do not affect the specific fuel consumption, but the power rises by 1.5 times. The two-shaft GT-700 unit was designed on the basis of the GT-550 by adding a superimposed, single stage turbine with a 700°C inlet temperature and a high-pressure compressor.

V. S. P.

Translator's note: This is the full translation of the original Russian abstract.

ACCESSION NR: AT3008538

automatic control by means of a digital electronic control device (ETsUM). This device has been described by Yu. A. Bolyayev (1961, Izv. GAO AN SSSR, 169). It operates with a binary code of sidereal time, computed in angular scale from the panel. This involves the use of a quartz-crystal clock running on sidereal time, a frequency divider and power amplifier, a frequency converter, and a cumulative adder. The operation of the parts is described in considerable detail. "B. N. Batanov (deceased), Yu. N. Gell', and A. V. Korolev participated in this work." Orig. art. has: 7 figures.

ASSOCIATION: Glavnaya astronomicheskaya observatoriya AN SSSR (Main Astronomical Observatory AN SSSR)

SUBMITTED: 00 DATE ACQ: 16Oct63 ENCL: 00

SUB CODE: AA, IE NO REF SOV: 004 OTHER: 000

Card 2/2

ACC NR: AP6035254 (A,N) SOURCE CODE: UR/0337/66/000/009/0040/0043

AUTHOR: Shkvar, A. Ya.

ORG: Sevastopol' Administration for Ocean Fishing (Sevastopol'skoye upravleniye okeanicheskogo rybolovstva)

TITLE: The operation of fresh water distilling plants in refrigerated fishing trawlers of the Tropik class

SOURCE: Rybnoye khozyaystvo, no. 9, 1966, 40-43

TOPIC TAGS: desalting equipment, steam auxiliary equipment, distillation, vacuum distillation, fishing ship, sea water corrosion, refrigeration equipment

ABSTRACT: The fresh water distillation process in Tropik class trawlers is discussed in detail. A schematic description of the steps in the process, from the initial intake from the main or auxiliary engines to the ultimate flow of distillate into the storage tanks, is given. Corrosion problems encountered in other trawlers are mentioned. Results of the first operational tests of the installation are cited. Orig. art. has: 3 figures.

SUB CODE: 13/SUBM DATE: None

UDC: 639.2.081

Card 1/1

SHKVAR, M. A., (Veterinary Assistant Surgeon, Cherkassk Raion Cherkassk Oblast8)

The use of biovetin in the avitaminotic dyspepsia of the newly born pigs.

Veterinariya vol. 38, no. 10, October 1961, pp. 81-89.

SHKVARINOV, V. A. (Edited by)

"City Construction", Published by the Academy of Architecture of the USSR, M., 1945.

SVETLICHNYY, V.I., red.; BABUROV, V.V., red.; DESYATKOV, G.V., red.; KRASIL'NIKOV, P.A., red.; KUDRYAVTSEV, A.O., red.; SVETLICHNYY, B.Ye., red.; SMIRNOV, N.S., red.; SHKVARIKOV, V.A., red.; PEVZNER, A.S., red.izd-va; GILENSON, P.G., tekhn.red.

[Regulations and norms for city planning and construction (SN 41-58)] Pravila i normy planirovki i zastroiki gorodov, SN 41-58. Izdanie ofitsial'noe. Moskva, Gos.izd-vo lit-ry po stroit., arkhit. i stroit.materialam, 1959. 178 p. (MIRA 12:7)

1. Russia (1923- U.S.S.R.) Gosudarstvennyy komitet po delam stroitel'stva.

(City planning)

ZALESSKAYA, L.S., kand.arkh.; ALEKSANDROVA, V.D., arkh.; SHKVARIKOV, V.A., red.; DYURNBAUM, N.S., red. [deceased]; KOLESNIKOV, A.I., red.; DOMSHLAK, I.P., red.; BALAKSHINA, Ye.S., arkhitektor, red.; FRIDBERG, G.V., inzh., red.; BRUSINA, L.N., tekhn.red.

[Manual for architects] Spravochnik arkhitektora. Red.V.A. Shkvarikov i dr. Moskva, Gos.izd-vo lit-ry po stroit., arkhit. i stroit.materialam. Vol.3., pt.2. [Landscaping of cities] Ozelenenie gorodov. Sost. L.S.Zalesskaia i V.D.Aleksandrova. 1960. 463 p. (MIRA 13:9)

1. Akademiya stroitel'stva i arkhitektury SSSR. Institut gradostroitel'stva i rayonnoy planirovki.
(Landscape gardening)

V.A. SHKVARIKOV

Planning and building the southwestern districts of Moscow.
Izv. ASIA no.2:13-20 '60. (MIRA 13:7)

1. Chlen-korrespondent Akademii stroitel'stva i arkhitektury SSSR.

(Moscow--City planning)

SHKVARIKOV, V.A.

Objectives of socialist urban development. Stroitel' no.4:3-4 Ap '60. (MIRA 13:6)

1. Chlen-korrespondent Akademii stroitel'stva i arkhitektury SSSR. Direktor Nauchno-issledovatel'skogo instituta gradostroitel'stva i rayonnoy planirovki.
(City planning)

SHKVARIKOV, V.A., otv. red.; SOKOLOVA, Ye., red.; GROSSMAN, V., red.; MCRUZOVA, G.V., red.izd-va; MOCHALINA, Z.S., tekhn. red.

[Regional planning and city planning abroad]Opyt raionnoi planirovki i gradostroitel'stva za rubezhom; sbornik. Moskva, Gosstroiizdat, 1962. 159 p. (MIRA 15:12)

1. Akademiya stroitel'stva i arkhitektury SSSR. Institut gradostroitel'stva i raionnoy planirovki.
(Regional planning) (City planning)

SHKVARIKOV, V.A.

The most important problems in planning and building cities.
Na stroi.Ros. 3 no.4:2-5 Ap '62. (MIRA 15:9)

1. Chlen-korrespondent Akademii stroitel'stva i arkhitektury SSSR, direktor Instituta gradostroitel'stva i rayonnoy planirovki.

(City planning)

SHKVARIKOV, V.A.; BLINKOVA, L.M., inzh.

Ways of reducing the cost of urban construction. Izv. ASiA 4 no.2:3-11 '62. (MIRA 15:9)

1. Chlen-korrespondent Akademii stroitel'stva i arkhitektury SSSR (for Shkvarikov).
(City planning industry—Costs)

TRAKHMAN, B.; SHKVARKIN, A.

Double the planned capacity. Sov. profsoiuzy 7 no.7:33-34 Ap '59.
(MIRA 12:7)

1.Direktor zavoda No.4 zhelezobetonnykh izdeliy Glavmospromstroy-materialov (for Trakhman). 2.Predsedatel' zavkoma profsoyuza (for Shkvarkin).
(Moscow--Reinforced concrete)
(Industrial efficiency)

MASLOV, Ivan Nikolayevich; CHIZHOVA, Klavdiya Nikolayevna; SHKVARKINA, Tat'yana Ivanovna; ZAPENINA, Nina Vasil'yevna; ZAGLODINA, Fedoniya Ivanovna; PLOTNIKOV, P.M., kand.tekhn.nauk, retsenzent; CHINCHUK, A.M., inzh., retsenzent; PRITYKINA, L.A., red.; SOKOLOVA, I.A., tekhn.red.

[Technological and chemical control of the baking industry] Tekhnokhimicheskii kontrol' khlebopekarnogo proizvodstva. Izd.3., perer. i dop. Moskva, Pishchepromizdat, 1960. 359 p. (MIRA 13:9)
(Bakers and bakeries)

SHCHERBATENKO, V.V.; CHIZHOVA, K.N.; SHKVARKINA, T.I.; LUR'YE, T.S.

New method for preparing rye and wheat doughs. Khleb. i kond. prom. 1 no.1:7-11 '57. (MLRA 10:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut khlebopekarnoy promyshlennosti.

(Dough)

SHKVARKINA, T. I., MASLOV, I. N., and CHIZHOVA, K. N. (USSR)

"An Examination of the Properties of Gluten in Relation to Bread Baking."

Report presented at the 5th International Biochemistry Congress, Moscow, 10-16 Aug 1961

MASLOV, I.N.; SHKVARKINA, T.I.; KIZIMA, P.N.; BRABETS, Ye.N.

Estimating the baking properties of the new wheat varieties presently under industrial testing in collective and state farms and having prospects for use in zoning. Trudy TSNIIKHP no.8:90-100 '60. (MIRA 15:8)

(Wheat—Testing)

MASLOV, I.N.; SHKVARKINA, T.I.; KIZIMA, P.N.; BRABETS, Ye.N.

Comparison testing of various wheat varieties different as to their baking properties. Trudy TSNIIKHP no.8:100-111 '60. (MIRA 15:8)

(Wheat--Testing)

SHKVARKINA, T.I.; KOROVIN, F.N.; AUERMAN, L.Ya.; ZHIGUNOVA, V.V.

More accurate specification and development of the methods for testing the baking properties of flour. Trudy TSNIIKHP no.8:111-123 '60. (MIRA 15:8)

(Flour--Testing)

NASIOV, I.N.; SHKVARINA, T.I.; KIZIMA, P.N.

Results of the testing of the baking properties of the "Odesskaia 16" and "Bezostaia 4" flour varieties. Trudy TSNIIKHP no.10:89-99 '62.

Comparison testing of different wheat varieties by their baking properties. Ibid.:100-115

(MIRA 18:2)

SHKVARKINA, T.I.; ZHIGUNOVA, V.V.

Investigating the baking properies of special purpose wheat flour obtained with various milling methods. Trudy TSNIIKHP no.10:116-121 '62. (MIRA 18:2)

PUCHKO A, Lyubov' Ivanovna; SHKVARKINA, T.I., kand. tekhn. nauk, retsenzent; ROYTER, I.M., kand. tekhn. nauk, retsenzent; AUERMAN, L.Ya., prof., red.; PRITYKINA, L.A., red.

[Practical laboratory work on the technology of bread baking] Laboratornyi praktikum po tekhnologii khlebopecheniia. Moskva, Izd-vo "Pishchevaia promyshlennost'," 1964. 145 p. (MIRA 17:7)

SHKVARKINA, T.I.; IVANOVA, Ye.A.; LUNEV, V.A.

Electron microscope testing of wheat flour gluten. Biokhim. zer. i khlebopech. no.7:271-274 '64. (MIRA 17:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut khlebopekarnoy promyshlennosti.

SHKVARKO, V.

Communist Youth League as a patron of the personnel of major chemical industrial complexes. Prof.-tekh.obr. 21 no.8:3 Ag '64. (MIRA 17:9)

1. Zamestitel' zaveduyushchego otdelom rabochey molodezhi TSentral'nogo komiteta Vsesoyuznogo Leninskogo kommunisticheskogo soyuza molodezhi.

TYUTEKIN, V.V.; SHKVARNIKOV, A.P.

Propag tion f flexural waves along an inhomogeneous plate with smcotlly varying parameters. Akust.zhur. 10 no.4:470-475 '64. (MIRA 18:2)

1. Akusticheskiy institut AN SSSR, Moskva.

SHKVARNIKOV, P. K.

"The influence of High Temperature on the Mutation Frequency of Wheat." (p. 503)
by Shkvarnikov, P. K.

SO: Biological Journal (Biologicheskii Zhurnal) Vol. V, 1935, No. 3

SHKVARNIKOV, P. K.

"On Increasing the Mutation Percentage of Wheat as a Result of Prolonged Storing of Seeds." (p. 513) by Shkvarnikov, P. K.

SO: Biological Journal (Biologicheskii Zhurnal) Vol. V, 1935, No. 3

SHKVARNIKOV, P. K.

"The influence of increased temperature on the frequency of chromosmal mutations in Crepis under different conditions of relative humidity of the air." Cytology Laboratory (Chief: M. S. Navashin), K. A. TIMIRYAZEV Biological Institute (Dir: B. P. Tokin), Moscow. (p. 887) by Shkvarnikov, P. K.

SO: Biological Journal (Biologicheskii Zhurnal) Vol. V, 1936, No. 5

[redacted], E. M. (Mr., Inst. of Cytology, Histology, and Embryology, Acad. Sci. (1947)

"An Instance of a Change in the Basic Number of Chromosomes in Crepis Capillaris."
Dok, AN, 56, No. 3, 1947.

USSR/Medicine - Plants 1 Mar 1948
Medicine - Chromosomes

PA 47T58 "Effect of Several Chemical Compounds on Chromosome Rebuilding in Plants," P. K. Shkvarnikov, Lab Botanical Cytology, Inst Cytology, Histology, and Embryol, Acad Sci USSR, 3½ pp

"Dok Akad Nauk SSSR, Nova Ser" Vol LIX, No 7

Author has conducted experiments on study of the influence of ethylenimine on the mutational process in several types of plants, such as Hordeum, Solanum, and Crepis. He presents results of experiments on the influence of this substance on chromosome rebuilding in Crepis capillaris. Results presented on the in-

47T58

USSR/Medicine - Plants (Contd) 1 Mar 1948

fluence of ethyl ether of carbonic acid on the frequency of chromosome change of interest, as before only data on the influence of genetic lethals on the frequency existed. Submitted by Academician V. N. Sukachev, 29 Dec 1947.

47T58

SHKVARNIKOV, P. K.

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Potatoes

Summer Planting of Potatoes in the Crimea by using newly harvested tubers., Izv. AN SSSR, Ser. biol. no. 1: 1952.

9. Monthly List of Russian Accessions, Library of Congress, May 1952, Uncl.

SHKVARNIKOV, P.K.

Application of chemical stimulants for bringing freshly harvested potato tubers from resting state (dormant state). P. K. Shkvarnikov and E. A. Solomko (Crimean Branch [illegible] Simferopol). *Izvest. Akad. Nauk S.S.S.R., Ser. Biol.*, 1954, No. 5, 55–65.—Treatment of potatoes with ethylene chlorohydrin vapors brings them out of the dormant state and leads to sprouting satisfactorily without incidence of rot, which occurs with treatment with the liquid form of the reagent. Treatment of the potatoes with thiourea soln. for 1–5 hrs. leads to sprouting also, but up to 50% of the potatoes show rot after a 5-hr. treatment. For best results a 2-hr. soaking is advised. A 2–3% soln. gave more pronounced sprouting activity than did more dil. solns. The highest proportion of sprouting is observed with potatoes collected during June; and the sprouting took place within 15–20 days. The closer the potatoes are to their ripening time the more difficult they are to bring out of dormancy.

G. M. Kosolapoff

SHKVARNIKOV, P.K.

Relation between secondary constrictions of chromosomes and nucleoli. Izv.Sib.otd.AN SSSR no.6:75-83 '61. (MIRA 14:6)

1. Institut tsitologii i genetiki Sibirskogo otdeleniya AN SSSR, Novosibirsk.

(Chromosomes)

SHKVARNIKOV, P.K.; CHERNYY, I.V.

Experimental mutations in spring wheat and their breeding significance. Radiobiologiia 1 no.2:296-303 '61. (MIRA 14:7)

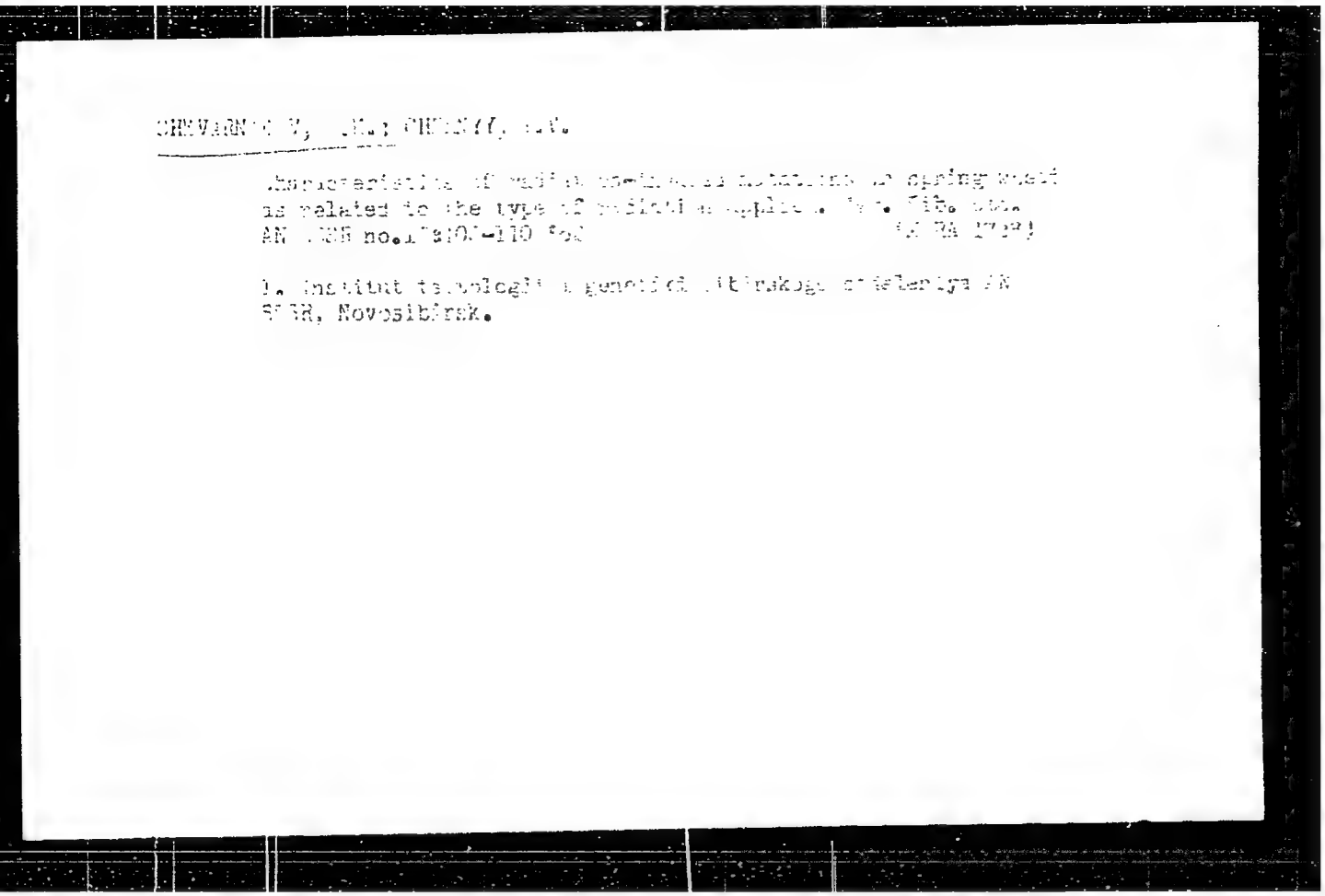
1. Institut tsitologii i genetiki Sibirskogo otdeleniya AN SSSR, Novosibirsk.

(PLANTS, EFFECT OF RADIATION ON)
(WHEAT BREEDING)

SHKVARNIKOV, P.K.; CHERNYY, I.V.

Experimental mutations in spring wheat and their significance for breeding. Report No.2. Radiobiologiia 1 no.5:799-806 '61.
(MIRA 14:11)

1. Institut tsitologii i genetiki Sibirskogo otdeleniya AN SSSR, Novosibirsk.
(WHEAT BREEDING) (PLANTS, EFFECT OF RADIATION ON)



SHKVARNIKOV, P.K., LIVENSI, A.M.

Variation in the frequency of radiation injuries of chromosomes in primary roots of wheat seeds. Izv. SO AN SSSR no.4. Ser. biol.-med. nauk no.1:28-34'63. (MIRA 16:8)

1. Institut tsitologii i genetiki Sibirskogo otdeleniya AN SSSR, Novosibirsk.

SHKVARNIKOV, P.K.

Effect of seed storage at high temperature and increased oxygen pressure on the mutagenic effect of gamma rays. TSitologiia 5 no.5: 535-545 S-O '63. (MIRA 17:4)

1. Laboratoriya radiatsionnoy selektsii i mutageniy Instituta tsitologii i genetiki Sibirskogo otdeleniya AN SSSR, Novosibirsk.

SHKVARNIKOV, P.K.

Experimental production of mutation in winter wheat. Izv. SO AN SSSR no.4 Ser. biol.-med. nauk no.1:64-73 '64.
(MIRA 17:11)

1. Institut tsitologii i genetiki Sibirskogo otdeleniya AN SSSR, Novosibirsk.

SHKVARNIKOV, P.K.; CHERNYY, I.V.

Influence of seed storage temperature and oxygen pressure on the radiobiolcgical effect. Radiobiologiia 4 no.2:297-305 '64. (MIRA 18:3)

1. Institut tsitologii i genetiki Sibirskogo otdeleniya AN SSSR, Novosibirsk.

ACCESSION NR: AP4027984 S/0205/64/004/002/0297/0305

AUTHOR: Shkvarnikov, P. K.; Chernyʼy, I. V.

TITLE: Influence of storage temperature and oxygen tension on the radiobiological effects of seeds

SOURCE: Radiobiologiya, v. 4, no. 2, 1964, 297-305

TOPIC TAGS: ionizing radiation, Mil'turum 553 wheat, gamma-irradiated seed, thermal neutron irradiated seed, storage temperature (40°C), storage oxygen level (60%), mutation frequency, mutation spectrum change

ABSTRACT: Air dried Mil'turum 553 wheat seeds were treated with various doses of gamma or thermal neutron irradiation and stored under different conditions. One group of irradiated seeds was stored for 30 days at room temperature, a second group was stored at 40°C, and a third group was stored in a 60% oxygen concentration at room temperature. All seeds were planted in a hot house and transplanted to a field when two or three leaves appeared. The second generation seeds were planted directly in a field. Germination and viability were

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ACCESSION NR: AP4027984

indices for the first generation. In the second generation morphological and physiological changes were studied during the entire vegetative period and checked in following generations. Findings show that temperature and oxygen level during storage period of seeds, treated with gamma- or thermal neutron radiation, significantly modify their radiation effects. The mutagenic effects of gamma-irradiated seeds are more affected by storage at 40°C or in 60% oxygen than thermal neutron irradiated seeds. Storage at 40°C decreases the mutation frequency of gamma-irradiated seeds and changes their mutation spectrum by a 12% decrease in number of general types and a 14% increase of new mutation types. However, storage at 40°C significantly increases the mutation frequency of thermal neutron treated seeds, but produces fewer specific mutations (5.8%). The mutation frequency of gamma-irradiated seeds, stored in 60% oxygen, increases and the mutation spectrum changes the same as with increased temperature (40°). However, the mutation frequency of thermal neutron treated seeds, stored in 60% oxygen, decreases and the mutation spectrum changes with a decrease in number of general types and a higher number of specific type mutations than for 40°C. The modifying action of storage conditions on the genetic effects of radiation appears to be based on

Card 2/3

ACCESSION NR: AP4027984

the interaction of chemical substances forming and accumulating in the seeds as a result of radiation and other external factors. Orig. art. has: 4 tables and 2 figures.

ASSOCIATION: Institut tsitologii i genetiki SO AN SSSR, Novosibirsk (Cytology and Genetics Institute SO AN SSSR)

SUBMITTED: 13Sep62 ENCL: 00

SUB CODE: LS NR REF SOV: 008 OTHER: 005

Card 3/3

SHKVARNIKOV, P.N.; KULIK, M.I.; SAPONOVA, V.T.

Relative mutagenic effectiveness of some chemical compounds on plants. Dokl. AN SSSR 164 no.5:1161-1164 O '65.
(MIRA 18:10)

1. Institut tsitologii i genetiki Sibirskogo otdeleniya AN SSSR.
Submitted December 14, 1964.

SHKVARNIKOV, P.K.

Mutation and breeding. Zemledelie 27 no.6:42-47 Je '65. (MIRA 18:9)

1. Institut taitologii i genetiki Sibirskogo otdeleniya AN SSSR.

SHKVARNIKOV, P.K.

Significance of artificially induced mutations for field crop breeding. Biul. MOIP. Otd. biol. 70 no.4:130-143 Jl-Ag '65. (MIRA 18:9)

SHKVARTSEV,A.A., kandidat tekhnicheskikh nauk; BORODIN,V.A., kandidat ekonomicheskikh nauk; BALYASOV,P.D., inzhener

"The organization of cotton manufacture." L.Zamakhovskii, T.Poliak, K.Fridenberg. Reviewed by A.A.Shkvartsev, V.A.Borodin, P.D.Baliasov. Tekst.prom.8 no.2:46-47 F'48. (MLRA 8:11)
(Cotton manufacture) (Zamakhovskii,L.) (Poliak,T.) (Fridenberg,K.)

SHKVARTSEV, A.A.; CHERTKOV, L.Ya.

New work organization in the M.V.Frunze Spinning and Weaving Factory in Moscow. Izv.vys.ucheb.zav.; tekh.tekst.prom. no.2:3-5 '60. (MIRA 13:11)

1. Moskovskiy tekstil'nyy institut i Moskovskaya pryadil'no-tkatskaya fabrika imeni M.V.Frunze.
(Moscow—Textile industry—Management)

POLYAK, T.B.; SHKVARTSEV, A.A.

International Colloquium on operational planning held in Czechoslovakia. Izv. vys.ucheb.zav.; tekh.tekst.prom. no.6:144-145 '61. (MIRA 15:1)

1. Moskovskiy tekstil'nyy institut.
(Textile industry)

SHKVARUK, Nikolay Matveyevich[Shkvaruk, M.M.], doktor sel'khoz. nauk, prof.; DELEMENCHUK, Nikolay Il'ich[Delemenchuk, M.I.], kand. sel'khoz. nauk, dots.; BELOUSOVA, O.M., red.

[Soil science] Hruntoznavstvo. Kyiv, Urozhai, 1965. 387 p. (MIRA 19:1)

1. Umanskiy sel'skokhozyaystvennyy institut (for Shkvaruk, Delemenchuk).

KUL'SKAYA, O.A.; SHKVARUK, R.N.

Spectral analysis of main components in silicate rocks, glass, and plant ashes. Ukr. khim. zhur. 30 no.3:281-286 '64. (MIRA 17:10)

1. Institut geologicheskikh nauk AN UkrSSR.

IVANTISHIN, Mikhail Nikolayevich; GORNYY, Georgiy Yakovlevich; KUL'SKAYA, Ol'ga Adol'fovna; YELISEYEVA, Galina Dmitriyevna, Prinimali uchastiye: GAVRILOVA, E.F., inzh.-khimik; KAZANTSEVA, A.I., inzh.-khimik; LOGVINA, L.A.,inzh.-khimik; USLONTSEVA, L.A., inzh.-khimik; GUDIMENKO, L.F., inzh.; NAZAREVICH, Ye.S., inzh.; SHKVARUK, R.N., inzh.; ORLOVA, L.A., inzh.; BASHMAKOVA, S.G., inzh.-geolog; BURKSER, Ye.S., otv. red.; MEL'NIK, A.F., red.

[Geochemistry and analytic chemistry of rare-earth elements. Pt.1. Accessory rare-earth minerals and elements of the cerium subgroup in the Ukrainian Crystalline Shield] Geokhimiia i analiticheskaia khimiia redkozemel'nykh elementov. Kiev, Naukova dumka. Pt.1. Aktsessornye redkozemel'nye minerały i elementy tserievoi podgruppy ukrainskogo kristallicheskogo shchita. 1967. 164 p. (Akademiia nauk URSR. Instytut geologichnykh nauk. Trudy. Seriia petrografii, mineralogii i geokhimii, no.21). (MIRA 18:..

1. Chlen-korrespondent AN UkrSSR (for Burkser).

L 61416-65 EWT(m)/EWP(t)/EWP(b) JD

ACCESSION NR: AP5019095 UR/0286/65/000/012/0114/0114

AUTHORS: Ur'yash, F. V.; Demidov, L. A.; Shkvayev, G. V.; Palitsyn, V. M. 14 B

TITLE: A device for evaporating matter in vacuum. Class 48, No 172168

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 12, 1965, 114

TOPIC TAGS: vacuum evaporation, evaporation

ABSTRACT: This Author Certificate presents a device for evaporating matter in vacuum (see Fig. 1 on the Enclosure). The device consists of a heater, a backing, and a crucible for the matter to be evaporated. The crucible is placed in a closed space formed by a screen with ducts. To prevent the uncontrollable heating of the device elements by scattered and secondary electrons while using an electron ray heater, the device is provided with deflecting screens and electron collectors placed at the outlets of exhaust ducts in the screen. Orig. art. has: 1 diagram.

ASSOCIATION: none

SUBMITTED: 25May64 ENCL: 01 SUB CODE: ME

NO REF SOV: 000 OTHER: 000

Card 1/2

L 61416-65 EWT(m)/EWP(t)/EWP(b) JD

ACCESSION NR: AP5019095 UR/0286/65/000/012/0114/0114

AUTHORS: Ur'yash, F. V.; Demidov, L. A.; Shkvayev, G. V.; Palitsyn, V. M. 14 B

TITLE: A device for evaporating matter in vacuum. Class 48, No 172168

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ASSOCIATION: none

SUBMITTED: 25May64 ENCL: 01 SUB CODE: ME

NO REF SOV: 000 OTHER: 000

Card 1/2